

Experiment Number: 20313-03
Test Type: 90-DAY
Route: DOSED FEED
Species/Strain: Rat/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Acrylamide
CAS Number: 79-06-1

Date Report Requested: 10/23/2014
Time Report Requested: 09:16:30
First Dose M/F: NA / NA
Lab: NCTR

C Number: C20313B
Lock Date: Not Entered.
Cage Range: All
Date Range: All
Reasons For Removal: All
Removal Date Range: All
Treatment Groups: All
Study Gender: Both
PWG Approval Date NONE

Experiment Number: 20313-03

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Species/Strain: Rat/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Acrylamide

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First Dose M/F: NA / NA

Lab: NCTR

F 344/NCTR Rat Male
Control Feed M

| DAY ON TEST | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

*TOTALS

Alimentary System

| | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | 8 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | 8 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | 8 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | 8 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | 8 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | 8 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | 8 |
| Liver | + | + | + | + | + | + | + | + | 8 |
| Pancreas | + | + | + | + | + | + | + | + | 8 |
| Salivary Glands | + | + | + | + | + | + | + | + | 8 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | 8 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | 8 |
| Tongue | + | + | + | + | + | + | + | + | 8 |

Cardiovascular System

| | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | 8 |
| Heart | + | + | + | + | + | + | + | + | 8 |

Endocrine System

| | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | 8 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | 8 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | 8 |

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

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Test Compound: Acrylamide

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First Dose M/F: NA / NA

Lab: NCTR

F 344/NCTR Rat Male
Control Feed M

Parathyroid Gland

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 1 | 1 | 2 | 2 | 2 | 3 | 3 | 4 | 4 |
| 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |

*TOTALS

| | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|
| Parathyroid Gland | M | + | + | + | + | + | + | + | 7 |
| Pituitary Gland | | + | + | + | + | + | + | + | 8 |
| Thyroid Gland | | + | + | + | + | + | + | + | 8 |

General Body System

NONE

Genital System

| | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|
| Epididymis | + | + | + | + | + | + | + | + | 8 |
| Preputial Gland | + | + | + | + | + | + | + | + | 8 |
| Prostate | + | + | + | + | + | + | + | + | 8 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | 8 |
| Testes | + | + | + | + | + | + | + | + | 8 |

Hematopoietic System

| | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | 8 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | 8 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | 8 |
| Spleen | + | + | + | + | + | + | + | + | 8 |
| Thymus | + | + | + | + | + | + | + | + | 8 |

Integumentary System

| | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | M | + | + | + | 7 |
| Skin | + | + | + | + | + | + | + | + | 8 |

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

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Species/Strain: Rat/F 344/NCTR

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First Dose M/F: NA / NA

Lab: NCTR

**F 344/NCTR Rat Male
Control Feed M**

| DAY ON TEST | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

*TOTALS

Musculoskeletal System

| | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|
| Bone, Femur | + | + | + | + | + | + | + | + | 8 |
| Skeletal Muscle | + | + | + | + | + | + | + | + | 8 |

Nervous System

| | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | 8 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | 8 |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | 8 |
| Peripheral Nerve | + | + | + | + | + | + | + | + | 8 |
| Spinal Cord, Cervical | + | + | + | + | + | + | + | + | 8 |
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | 8 |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | 8 |

Respiratory System

| | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | 8 |
| Nose | + | + | + | + | + | + | + | + | 8 |
| Trachea | + | + | + | + | + | + | + | + | 8 |

Special Senses System

| | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | 8 |
| Harderian Gland | + | + | + | + | + | + | + | + | 8 |

Urinary System

| | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | 8 |
|--------|---|---|---|---|---|---|---|---|---|

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

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Species/Strain: Rat/F 344/NCTR

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First Dose M/F: NA / NA

Lab: NCTR

F 344/NCTR Rat Male
Control Feed M

| DAY ON TEST | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 1 | 1 | 2 | 2 | 2 | 3 | 3 | 4 | 4 |
| 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |
| *TOTALS | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | 8 |
| SYSTEMIC LESIONS | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | 8 |

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

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Test Compound: Acrylamide

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Date Report Requested: 10/23/2014

Time Report Requested: 09:16:30

First Dose M/F: NA / NA

Lab: NCTR

**F 344/NCTR Rat Male
7.4 PPM Acryl M**

| DAY ON TEST | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 |
| | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

*TOTALS

Alimentary System

Liver

+

1

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

Epididymis

++ + + + + + + +

8

Testes

++ + + + + + + +

8

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

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Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Acrylamide

CAS Number: 79-06-1

Date Report Requested: 10/23/2014

Time Report Requested: 09:16:30

First Dose M/F: NA / NA

Lab: NCTR

**F 344/NCTR Rat Male
7.4 PPM Acryl M**

| DAY ON TEST | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 |
| | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

*TOTALS

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ

+ + + + + + + + +

8

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 20313-03

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Acrylamide

CAS Number: 79-06-1

Date Report Requested: 10/23/2014

Time Report Requested: 09:16:30

First Dose M/F: NA / NA

Lab: NCTR

**F 344/NCTR Rat Male
18.5 PPM Acryl M**

| DAY ON TEST | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

*TOTALS

Alimentary System

Liver

+

1

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

Epididymis

++ + + + + + + +

8

Testes

++ + + + + + + +

8

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 20313-03

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Acrylamide

CAS Number: 79-06-1

Date Report Requested: 10/23/2014

Time Report Requested: 09:16:30

First Dose M/F: NA / NA

Lab: NCTR

F 344/NCTR Rat Male
18.5 PPM Acryl M

| DAY ON TEST | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

*TOTALS

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ

+ + + + + + + + +

8

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

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Species/Strain: Rat/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Acrylamide

CAS Number: 79-06-1

Date Report Requested: 10/23/2014

Time Report Requested: 09:16:30

First Dose M/F: NA / NA

Lab: NCTR

**F 344/NCTR Rat Male
37 PPM Acryl M**

| DAY ON TEST | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

***TOTALS**

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

Epididymis

+ + + + + + + +

8

Testes

+ + + + + + + +

8

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

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Route: DOSED FEED

Species/Strain: Rat/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Acrylamide

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Date Report Requested: 10/23/2014

Time Report Requested: 09:16:30

First Dose M/F: NA / NA

Lab: NCTR

**F 344/NCTR Rat Male
37 PPM Acryl M**

| DAY ON TEST | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| 9 | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 |
| 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 |

*TOTALS

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ

+ + + + + + + + +

8

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

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Time Report Requested: 09:16:30

First Dose M/F: NA / NA

Lab: NCTR

**F 344/NCTR Rat Male
74 PPM Acryl M**

| DAY ON TEST | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 |
| | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

*TOTALS

Alimentary System

Liver

+

1

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

Epididymis

++ + + + + + + +

8

Testes

++ + + + + + + +

8

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

Skeletal Muscle

++ + + + + + + +

8

Nervous System

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

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First Dose M/F: NA / NA

Lab: NCTR

**F 344/NCTR Rat Male
74 PPM Acryl M**

| DAY ON TEST | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 |
| | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

*TOTALS

Peripheral Nerve

+ + + + + + + + +

8

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ

+ + + + + + + + +

8

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

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Species/Strain: Rat/F 344/NCTR

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Date Report Requested: 10/23/2014

Time Report Requested: 09:16:30

First Dose M/F: NA / NA

Lab: NCTR

**F 344/NCTR Rat Male
185 PPM Acryl M**

| DAY ON TEST | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

*TOTALS

Alimentary System

| | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | 8 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | 8 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | 8 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | 8 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | 8 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | 8 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | 8 |
| Liver | + | + | + | + | + | + | + | + | 8 |
| Pancreas | + | + | + | + | + | + | + | + | 8 |
| Salivary Glands | + | + | + | + | + | + | + | + | 8 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | 8 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | 8 |
| Tongue | + | + | + | + | + | + | + | + | 8 |

Cardiovascular System

| | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | 8 |
| Heart | + | + | + | + | + | + | + | + | 8 |

Endocrine System

| | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | 8 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | 8 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | 8 |

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 20313-03

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Acrylamide

CAS Number: 79-06-1

Date Report Requested: 10/23/2014

Time Report Requested: 09:16:30

First Dose M/F: NA / NA

Lab: NCTR

**F 344/NCTR Rat Male
185 PPM Acryl M**

| DAY ON TEST | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

*TOTALS

| | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|
| Parathyroid Gland | + | + | + | + | + | + | + | + | 8 |
| Pituitary Gland | + | + | + | + | + | + | + | + | 8 |
| Thyroid Gland | + | + | + | + | + | + | + | + | 8 |

General Body System

NONE

Genital System

| | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|
| Epididymis | + | + | + | + | + | + | + | + | 8 |
| Preputial Gland | + | + | + | + | + | + | + | + | 8 |
| Prostate | + | + | + | + | + | + | + | + | 8 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | 8 |
| Testes | + | + | + | + | + | + | + | + | 8 |

Hematopoietic System

| | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | 8 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | 8 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | 8 |
| Spleen | + | + | + | + | + | + | + | + | 8 |
| Thymus | + | + | + | + | + | + | + | + | 8 |

Integumentary System

| | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | 8 |
| Skin | + | + | + | + | + | + | + | + | 8 |

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 20313-03

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Acrylamide

CAS Number: 79-06-1

Date Report Requested: 10/23/2014

Time Report Requested: 09:16:31

First Dose M/F: NA / NA

Lab: NCTR

**F 344/NCTR Rat Male
185 PPM Acryl M**

| DAY ON TEST | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

*TOTALS

Musculoskeletal System

| | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|
| Bone, Femur | + | + | + | + | + | + | + | + | 8 |
| Skeletal Muscle | + | + | + | + | + | + | + | + | 8 |

Nervous System

| | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | 8 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | 8 |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | 8 |
| Peripheral Nerve | + | + | + | + | + | + | + | + | 8 |
| Spinal Cord, Cervical | + | + | + | + | + | + | + | + | 8 |
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | 8 |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | 8 |

Respiratory System

| | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | 8 |
| Nose | + | + | + | + | + | + | + | + | 8 |
| Trachea | + | + | + | + | + | + | + | + | 8 |

Special Senses System

| | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | 8 |
| Harderian Gland | + | + | + | + | + | + | + | + | 8 |

Urinary System

| | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | 8 |
|--------|---|---|---|---|---|---|---|---|---|

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 20313-03

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Acrylamide

CAS Number: 79-06-1

Date Report Requested: 10/23/2014

Time Report Requested: 09:16:31

First Dose M/F: NA / NA

Lab: NCTR

**F 344/NCTR Rat Male
185 PPM Acryl M**

| DAY ON TEST | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

| ANIMAL ID | | | | | | | | |
|-----------|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 8 |
| 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 |

***TOTALS**

Urinary Bladder

+ + + + + + + + + 8

SYSTEMIC LESIONS

Multiple Organ

+ + + + + + + + + 8

*****END OF MALE DATA*****

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 20313-03

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Acrylamide

CAS Number: 79-06-1

Date Report Requested: 10/23/2014

Time Report Requested: 09:16:31

First Dose M/F: NA / NA

Lab: NCTR

| F 344/NCTR Rat Female Control Feed F | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|--------------------|---|---|---|---|---|---|---|
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 5 | 5 | 6 | 6 | 7 | 7 | 8 |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 |

***TOTALS**

Alimentary System

| | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | 8 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | 8 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | 8 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | 8 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | 8 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | 8 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | 8 |
| Liver | + | + | + | + | + | + | + | + | 8 |
| Pancreas | + | + | + | + | + | + | + | + | 8 |
| Salivary Glands | + | + | + | + | + | + | + | + | 8 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | 8 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | 8 |
| Tongue | + | + | + | + | + | + | + | + | 8 |

Cardiovascular System

| | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | 8 |
| Heart | + | + | + | + | + | + | + | + | 8 |

Endocrine System

| | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | 8 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | 8 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | 8 |

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 20313-03

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Acrylamide

CAS Number: 79-06-1

Date Report Requested: 10/23/2014

Time Report Requested: 09:16:31

First Dose M/F: NA / NA

Lab: NCTR

| F 344/NCTR Rat Female Control Feed F | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|---|-------------|----------------|---|---|---|---|---|---|---|
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 5 | 5 | 6 | 6 | 7 | 7 | 8 | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | |
| | | *TOTALS | | | | | | | |
| Parathyroid Gland | | + | + | + | + | + | + | + | 8 |
| Pituitary Gland | | + | + | + | + | + | + | + | 8 |
| Thyroid Gland | | + | + | + | + | + | + | + | 8 |
| General Body System | | | | | | | | | |
| NONE | | | | | | | | | |
| Genital System | | | | | | | | | |
| Clitoral Gland | | + | + | + | + | + | + | + | 8 |
| Ovary | | + | + | + | + | + | + | + | 8 |
| Uterus | | + | + | + | + | + | + | + | 8 |
| Hematopoietic System | | | | | | | | | |
| Bone Marrow | | + | + | + | + | + | + | + | 8 |
| Lymph Node, Mandibular | | + | + | + | + | + | + | + | 8 |
| Lymph Node, Mesenteric | | + | + | + | + | + | + | + | 8 |
| Spleen | | + | + | + | + | + | + | + | 8 |
| Thymus | | + | + | + | + | + | + | + | 8 |
| Integumentary System | | | | | | | | | |
| Mammary Gland | | + | + | + | + | + | + | + | 8 |
| Skin | | + | + | + | + | + | + | + | 8 |
| Musculoskeletal System | | | | | | | | | |
| Bone, Femur | | + | + | + | + | + | + | + | 8 |

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 20313-03

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Acrylamide

CAS Number: 79-06-1

Date Report Requested: 10/23/2014

Time Report Requested: 09:16:31

First Dose M/F: NA / NA

Lab: NCTR

F 344/NCTR Rat Female
Control Feed F

| DAY ON TEST | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

*TOTALS

Skeletal Muscle

+ + + + + + + + + 8

Nervous System

Brain, Brain Stem + + + + + + + + + 8

Brain, Cerebellum + + + + + + + + + 8

Brain, Cerebrum + + + + + + + + + 8

Peripheral Nerve + + + + + + + + + 8

Spinal Cord, Cervical + + + + + + + + + 8

Spinal Cord, Lumbar + + + + + + + + + 8

Spinal Cord, Thoracic + + + + + + + + + 8

Respiratory System

Lung + + + + + + + + + 8

Nose + + + + + + + + + 8

Trachea + + + + + + + + + 8

Special Senses System

Eye + + + + + + + + + 8

Harderian Gland + + + + + + + + + 8

Urinary System

Kidney + + + + + + + + + 8

Urinary Bladder + + + + + + + + + 8

SYSTEMIC LESIONS

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 20313-03

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Acrylamide

CAS Number: 79-06-1

Date Report Requested: 10/23/2014

Time Report Requested: 09:16:31

First Dose M/F: NA / NA

Lab: NCTR

| F 344/NCTR Rat Female Control Feed F | DAY ON TEST | | | | | | | | |
|---|-------------|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 8 |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |
| | | | | | | | | | |
| Multiple Organ | | + | + | + | + | + | + | + | 8 |

*TOTALS

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 20313-03

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Acrylamide

CAS Number: 79-06-1

Date Report Requested: 10/23/2014

Time Report Requested: 09:16:31

First Dose M/F: NA / NA

Lab: NCTR

| F 344/NCTR Rat Female 7.4 PPM Acryl F | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|--------------------|---|---|---|---|---|---|---|
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *TOTALS | | | | | | | | |

Alimentary System

| | | |
|-----------|---|---|
| Liver | + | 1 |
| Mesentery | + | 1 |

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

| | | |
|--------|---|---|
| Ovary | + | 1 |
| Uterus | + | 2 |

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

NONE

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 20313-03

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Acrylamide

CAS Number: 79-06-1

Date Report Requested: 10/23/2014

Time Report Requested: 09:16:31

First Dose M/F: NA / NA

Lab: NCTR

| F 344/NCTR Rat Female 7.4 PPM Acryl F | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|--------------------|---|---|---|---|---|---|---|
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

***TOTALS**

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ

+ + + 3

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 20313-03

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Acrylamide

CAS Number: 79-06-1

Date Report Requested: 10/23/2014

Time Report Requested: 09:16:31

First Dose M/F: NA / NA

Lab: NCTR

| F 344/NCTR Rat Female 18.5 PPM Acryl F | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|--------------------|---|---|---|---|---|---|---|
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *TOTALS | | | | | | | | |

Alimentary System

Liver

+

+

2

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

Lymph Node

+

1

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 20313-03

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Acrylamide

CAS Number: 79-06-1

Date Report Requested: 10/23/2014

Time Report Requested: 09:16:31

First Dose M/F: NA / NA

Lab: NCTR

| F 344/NCTR Rat Female 18.5 PPM Acryl F | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|--------------------|---|---|---|---|---|---|---|
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *TOTALS | | | | | | | | |

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ

+

+

2

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 20313-03

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Acrylamide

CAS Number: 79-06-1

Date Report Requested: 10/23/2014

Time Report Requested: 09:16:31

First Dose M/F: NA / NA

Lab: NCTR

| F 344/NCTR Rat Female 37 PPM Acryl F | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|--------------------|---|---|---|---|---|---|---|
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *TOTALS | | | | | | | | |

Alimentary System

Liver + 1

Mesentery + 1

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

Uterus + 1

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 20313-03

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Acrylamide

CAS Number: 79-06-1

Date Report Requested: 10/23/2014

Time Report Requested: 09:16:31

First Dose M/F: NA / NA

Lab: NCTR

| F 344/NCTR Rat Female 37 PPM Acryl F | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|-------------|----------------|---|---|---|---|---|---|
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 3 | 3 | 4 | 4 | 5 | 5 | 6 |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 |
| | | *TOTALS | | | | | | |

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ

+ +

2

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 20313-03

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/NCTR

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Test Compound: Acrylamide

CAS Number: 79-06-1

Date Report Requested: 10/23/2014

Time Report Requested: 09:16:31

First Dose M/F: NA / NA

Lab: NCTR

| F 344/NCTR Rat Female 74 PPM Acryl F | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|--------------------|---|---|---|---|---|---|---|
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *TOTALS | | | | | | | | |

Alimentary System

Liver

+ 1

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

Ovary

+ 1

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

Skeletal Muscle

+ + + + + + + + 8

Nervous System

Peripheral Nerve

+ + + + + + + + 8

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

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Lab: NCTR

| F 344/NCTR Rat Female 74 PPM Acryl F | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|--------------------|---|---|---|---|---|---|---|
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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Experiment Number: 20313-03

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Acrylamide

CAS Number: 79-06-1

Date Report Requested: 10/23/2014

Time Report Requested: 09:16:31

First Dose M/F: NA / NA

Lab: NCTR

| F 344/NCTR Rat Female 185 PPM Acryl F | DAY ON TEST | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

*TOTALS

Alimentary System

| | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | 8 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | 8 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | 8 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | 8 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | 8 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | 8 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | 8 |
| Liver | + | + | + | + | + | + | + | + | + | 8 |
| Pancreas | + | + | + | + | + | + | + | + | + | 8 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | 8 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | 8 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | 8 |
| Tongue | + | + | + | + | + | + | + | + | + | 8 |

Cardiovascular System

| | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | 8 |
| Heart | + | + | + | + | + | + | + | + | + | 8 |

Endocrine System

| | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | 8 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | 8 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | 8 |

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

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Species/Strain: Rat/F 344/NCTR

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First Dose M/F: NA / NA

Lab: NCTR

| F 344/NCTR Rat Female 185 PPM Acryl F | DAY ON TEST | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| *TOTALS | | | | | | | | | |
| Parathyroid Gland | | + | + | + | + | + | + | + | + |
| Pituitary Gland | | + | + | + | + | + | + | + | + |
| Thyroid Gland | | + | + | + | + | + | + | + | + |
| General Body System | | | | | | | | | |
| NONE | | | | | | | | | |
| Genital System | | | | | | | | | |
| Clitoral Gland | | + | + | + | + | + | + | + | + |
| Ovary | | + | + | + | + | + | + | + | + |
| Uterus | | + | + | + | + | + | + | + | + |
| Hematopoietic System | | | | | | | | | |
| Bone Marrow | | + | + | + | + | + | + | + | + |
| Lymph Node, Mandibular | | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric | | + | + | + | + | + | + | + | + |
| Spleen | | + | + | + | + | + | + | + | + |
| Thymus | | + | + | + | + | + | + | + | + |
| Integumentary System | | | | | | | | | |
| Mammary Gland | | + | + | + | + | + | + | + | + |
| Skin | | + | + | + | + | + | + | + | + |
| Musculoskeletal System | | | | | | | | | |
| Bone, Femur | | + | + | + | + | + | + | + | + |

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

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|--|-------------|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

*TOTALS

| | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | 8 |
|-----------------|---|---|---|---|---|---|---|---|---|---|

Nervous System

| | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | 8 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | 8 |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | 8 |
| Peripheral Nerve | + | + | + | + | + | + | + | + | + | 8 |
| Spinal Cord, Cervical | + | + | + | + | + | + | + | + | + | 8 |
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | + | 8 |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | 8 |

Respiratory System

| | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | 8 |
| Nose | + | + | + | + | + | + | + | + | + | 8 |
| Trachea | + | + | + | + | + | + | + | + | + | 8 |

Special Senses System

| | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | 8 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | 8 |

Urinary System

| | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | 8 |
| Urinary Bladder | + | + | + | + | + | + | + | M | + | 7 |

SYSTEMIC LESIONS

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

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A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

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|--|----------------|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 | 2 |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 |
| | *TOTALS | | | | | | | | 8 |
| | Multiple Organ | | | | | | | | |
| + + + + + + + + + + | | | | | | | | | |

**** END OF REPORT ****

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

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